

## CLAIMS

*Sub A*

1. A sensed-pressure-data converter comprising:  
a pressure sensitive resistance element comprising:  
two insulating substrates disposed face to face; and  
5 a pressure sensitive conductor interposed between said insulating substrates, for varying a resistance thereof according to a load applied from an outside of said insulating substrates;  
a controller for detecting an electric characteristic of said pressure sensitive resistance element, converting the electric 10 characteristic into a desired electric characteristic signal, and issuing a desired electric characteristic signal, comprising:  
an A/D converter receiving a signal from said pressure sensitive resistance element  
a memory preliminarily storing a compensation value 15 determined based on an error signal between the electric characteristic of said pressure sensitive resistance element and a reference electric characteristic; and  
a D/A converter compensating a signal from said A/D converter based on the electric characteristic of said pressure sensitive 20 resistance element due to a resistance change of said pressure sensitive resistance element based on the compensation value stored in said memory, and converting into a desired electric characteristic signal and issuing; and  
25 an adjustment value input terminal for inputting the error signal into an input terminal of said A/D converter.

2. The sensed-pressure-data converter according to claim 1,

wherein said controller further comprises a temperature sensor for compensating suitably to an ambient temperature of said pressure sensitive resistance element.

5        3. The sensed-pressure-data converter according to claim 1 comprising a plurality of said pressure sensitive resistance elements, wherein said controller further comprises output terminals corresponding to the plurality of said pressure sensitive resistance elements, respectively.

*Sub A3*  
4. The sensed-pressure-data converter according to claim 1 further comprising:

      a reference output voltage source for issuing a reference value of an offset of an output of said D/A converter; and

      an error amplifier for receiving an output of said D/A converter  
15        and the reference value and for outputting the error signal.

      5. The sensed-pressure-data converter according to claim 1, wherein said controller further comprises an abnormality detecting output terminal for detecting and outputting an signal showing an abnormality of  
20        a signal processing in said controller. *✓*